12 Lead PC-ECG System

CD12USB

12-Lead ECG from your own PC

Clinical Advantage

CardioDirect12 turns your PC into a dedicated 12-channel ECG machine with affordable plain paper printing.

Simple software installation and straightforward USB connection to the PC, lets you get started right away. ECG reports can be stored in the Sentinel database that can also be networked.

Fast & Accurate ECG Acquisition

CardioDirect12 offers a flexible Digital solution for the acquisition, analysis and communication of resting 12-Lead ECG.

Resting Mode

The real time ECG is displayed on screen, the operator can then choose the most satisfactory ECG.
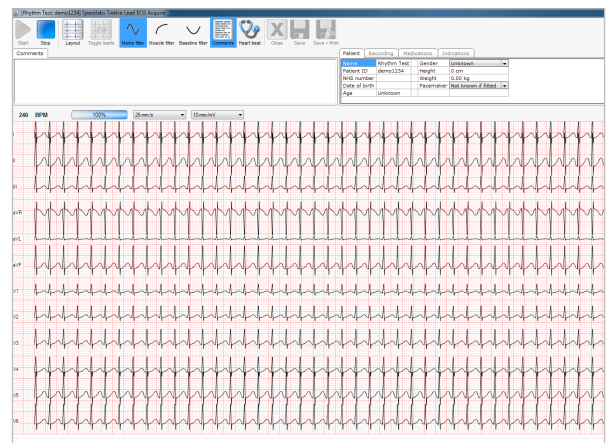
Rhythm Mode

The ECG is displayed and recorded continuously for up to 1 hour. The 12-Lead rhythm ECG can then be viewed and printed. Operator selected
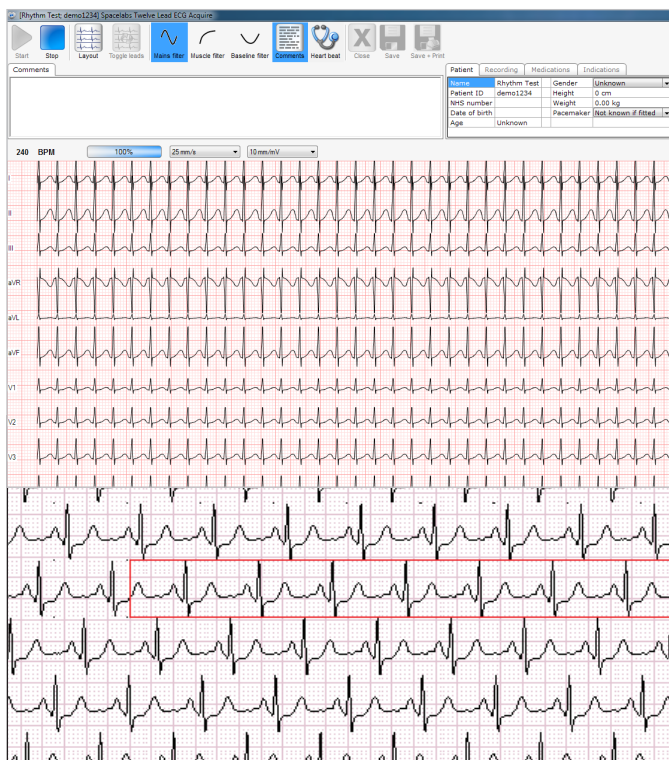
12-Lead ECG reports can be added.

Comprehensive Solution

Clear and simple screen layout

Practical

- Simple user interface for ease of use
- User defined lead programs
- 3, 6 or 12 channel views
- Baseline, AC and muscle filters
- Amplitude and paper speed can be changed real time or post acquisition

Select 12-Lead ECGs from the full disclosure

Review & Analysis Tools

Measure

CardioDirect12 is supplied with a comprehensive auto-measurement package that includes RR intervals, P-wave duration, PQ interval and QRS width.

Interpret

Once downloaded into Sentinel, the Interpretation option provides a comprehensive analysis and report including measurements, rhythm and findings. Comments can be added to the automatic results which can be included or disabled on the printout.

Interact

Individual beats can be selected and zoomed in, with on screen callipers to measure the QRS complex in detail. Measurements are then included on the printed ECG.

Make detailed interval measurements on any selected complex

Data Management & Networking

Sentinel is a centralized data management system for communication and integration of data from all of our products.

Sentinel Provides:

- A central SQL database of recordings and reports that can be accessed for analysis or review from any networked system
- Network viewing of reports including viewing, editing and analysis of results including local printing
- Electronic transmission of recordings or results via e-mail to other users of Sentinel
- HL7, Bidirectional interface to hospital information systems
- Reports can be stored in PDF format
- Network, CD or DVD archiving of databases for backup

Additional Features

- Comprehensive auto-measurement as standard (Glasgow Interpretive Algorithm) with 12-Lead interpretation
- Resting ECG for 10 seconds and Rhythm for up to 1 hour
- Lead check facility
- Multiple acquisition programs including (Einthoven, Goldberger, Wilson, Nehb and Frank)
- Optional 12-Lead interpretation
- Emergency recording/monitoring facility
- Make detailed interval measurements on any selected complex
- Recognizes pacemaker pulses
- Electronically compare up to 5 ECGs from the same patient
- Comprehensive list of print formats
- Connection to PC via USB port

Specification

Unit Specifications

Input range	-300 mV to + 300 mV
CMRR	120 dB
Analogue Bandwidth	-3dB 0 to 150 Hz
Acquisition Resolution	18 bit
Acquisition Sample Rate	2000 Hz
Pacing spike detection	Normal Sensivity 200µs >=1.5 mV Low Sensivity 200µs >=3 mV (Low sensitivity pacing only selectable in Sentinel 9 and above)

Physical Dimensions

Height	100 mm (4.13 Inches)
Depth	27 mm (1.02 Inches) excluding belt clip
Width	72 mm (2.83 Inches)
Weight	<100g (3.53 oz) excluding USB and Patient Cables

USB Interface

Cable length	3m
USB Compliance	USB2.0 and USB3.0